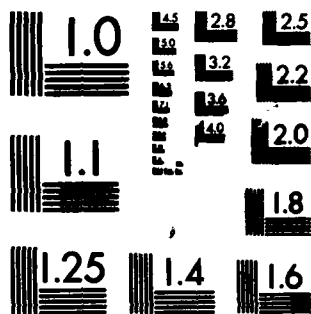


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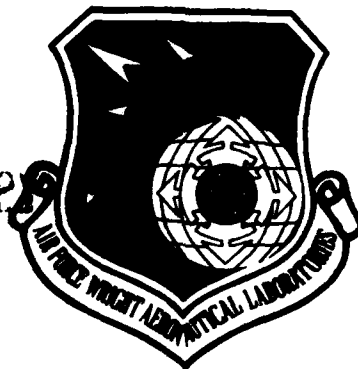


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**AFWAL-TR-86-4006
Volume VIII
Part 19**

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**INTEGRATED INFORMATION
SUPPORT SYSTEM (IISS)
Volume VIII - User Interface Subsystem
Part 19 - Forms Driven Form Editor Unit Test Plan**

**General Electric Company
Production Resources Consulting
One River Road
Schenectady, New York 12345**

**Final Report for Period 22 September 1980 - 31 July 1985
November 1985**

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PREPARED FOR:

**MATERIALS LABORATORY
AIR FORCE WRIGHT AERONAUTICAL LABORATORIES
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WRIGHT-PATTERSON AFB, OH 45433-6533**

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PREFACE

This unit test plan covers the work performed under Air Force Contract F33615-80-C-5155 (ICAM Project 6201). This contract is sponsored by the Materials Laboratory, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Gerald C. Shumaker, ICAM Program Manager, Manufacturing Technology Division, through Project Manager, Mr. David Judson. The Prime Contractor was Production Resources Consulting of the General Electric Company, Schenectady, New York, under the direction of Mr. Allan Rubenstein. The General Electric Project Manager was Mr. Myron Hurlbut of Industrial Automation Systems Department, Albany, New York.

Certain work aimed at improving Test Bed Technology has been performed by other contracts with Project 6201 performing integrating functions. This work consisted of enhancements to Test Bed software and establishment and operation of Test Bed hardware and communications for developers and other users. Documentation relating to the Test Bed from all of these contractors and projects have been integrated under Project 6201 for publication and treatment as an integrated set of documents. The particular contributors to each document are noted on the Report Documentation Page (DD1473). A listing and description of the entire project documentation system and how they are related is contained in document FTR620100001, Project Overview.

The subcontractors and their contributing activities were as follows:

TASK 4.2

Subcontractors

Role

Boeing Military Aircraft
Company (EMAC)

Reviewer

D. Appleton Company
(DACOM)

Responsible for IDEF support,
state-of-the-art literature
search

General Dynamics/
Ft. Worth

Responsible for factory view
function and information
models

<u>Subcontractors</u>	<u>Role</u>
Illinois Institute of Technology	Responsible for factory view function research (IITRI) and information models of small and medium-size business
North American Rockwell	Reviewer
Northrop Corporation	Responsible for factory view function and information models
Pritsker and Associates	Responsible for IDEF2 support
SofTech	Responsible for IDEFO support

TASKS 4.3 - 4.9 (TEST BED)

<u>Subcontractors</u>	<u>Role</u>
Boeing Military Aircraft Company (BMAC)	Responsible for consultation on applications of the technology and on IBM computer technology.
Computer Technology Associates (CTA)	Assisted in the areas of communications systems, system design and integration methodology, and design of the Network Transaction Manager.
Control Data Corporation (CDC)	Responsible for the Common Data Model (CDM) implementation and part of the CDM design (shared with DACOM).
D. Appleton Company (DACOM)	Responsible for the overall CDM Subsystem design integration and test plan, as well as part of the design of the CDM (shared with CDC). DACOM also developed the Integration Methodology and did the schema mappings for the Application Subsystems.

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Subcontractors

Role

Digital Equipment
Corporation (DEC)

Consulting and support of the
performance testing and on DEC
software and computer systems
operation.

McDonnell Douglas
Automation Company
(McAuto)

Responsible for the support and
enhancements to the Network
Transaction Manager Subsystem
during 1984/1985 period.

On-Line Software
International (OSI)

Responsible for programming the
Communications Subsystem on the
IBM and for consulting on the
IBM.

Rath and Strong Systems
Products (RSSP) (In 1985
became McCormack & Dodge)

Responsible for assistance in
the implementation and use of
the MRP II package (PIOS) that
they supplied.

SofTech, Inc.

Responsible for the design and
implementation of the Network
Transaction Manager (NTM) in
1981/1984 period.

Software Performance
Engineering (SPE)

Responsible for directing the
work on performance evaluation
and analysis.

Structural Dynamics
Research Corporation
(SDRC)

Responsible for the User
Interface and Virtual Terminal
Interface Subsystems.

Subcontractors and other prime contractors under other
projects who have contributed to Test Bed Technology, their
contributing activities and responsible projects are as follows:

Subcontractors

Role

General Dynamics/
Ft. Worth

Responsible for
factory view

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<u>Contractors</u>	<u>ICAM Project</u>	<u>Contributing Activities</u>
Boeing Military Aircraft Company (BMAC)	1701, 2201, 2202	Enhancements for IBM node use. Technology Transfer to Integrated Sheet Metal Center (ISMC)
Control Data Corporation (CDC)	1502, 1701	IISS enhancements to Common Data Model Processor (CDMP)
D. Appleton Company (DACOM)	1502	IISS enhancements to Integration Methodology
General Electric	1502	Operation of the Test Bed and communications equipment.
Hughes Aircraft Company (HAC)	1701	Test Bed enhancements
Structural Dynamics Research Corporation (SDRC)	1502, 1701, 1703	IISS enhancements to User Interface/Virtual Terminal Interface (UI/VTI)
Systran	1502	Test Bed enhancements. Operation of Test Bed.

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SECTION 1

GENERAL

1.1 Purpose

This unit test plan establishes the methodology and procedures used to adequately test the capabilities of the computer program identified as the Forms Driven Form Editor known in this document as the FDFE. The FDFE is one configuration item of the Integrated Information Support System (IISS) User Interface (UI).

1.2 Project References

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- [2] Structural Dynamics Research Corporation, Form Editor User Manual, UM 620144400B, 1 November 1985.
- [3] Structural Dynamics Research Corporation, Forms Driven Form Editor Development Specification, DS 620144402B, 1 November 1985.
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- [6] Structural Dynamics Research Corporation, Application Interface Unit Test Plan, UTP620144700, 1 November 1985.
- [7] Structural Dynamics Research Corporation, Virtual Terminal Interface Unit Test Plan, UTP620144300, 1 November 1985.
- [8] Structural Dynamics Research Corporation, Forms Language Compiler Unit Test Plan, UTP620144401, 1 November 1985.

- [9] Structural Dynamics Research Corporation, User Interface Services Unit Test Plan, UTP620144100 , 1 November 1985.
- [10] Structural Dynamics Research Corporation, Report Writer Unit Test Plan, UTP620144501 , 1 November 1985.
- [11] Structural Dynamics Research Corporation, Rapid Application Generator Unit Test Plan, UTP620144502, 1 November 1985.
- [12] Sturctural Dynamics Research Corporation, Text Editor Unit Test Plan, UTP620144600, 1 November 1985.

1.3 Terms and Abbreviations

American Standard Code for Information Interchange: (ASCII), the character set defined by ANSI X3.4 and used by most computer vendors.

Application Interface: (AI), subset of the IISS User Interface that consists of the callable routines that are linked with applications that use the Form Processor or Virtual Terminal. The AI enables applications to be hosted on computers other than the host of the User Interface.

Application Process: (AP), a cohesive unit of software that can be initiated as a unit to perform some function or functions.

Attribute: field characteristic such as blinking, highlighted, black, etc. and various other combinations. Background attributes are defined for forms or windows only. Foreground attributes are defined for items. Attributes may be permanent, i.e., they remain the same unless changed by the application program, or they may be temporary, i.e., they remain in effect until the window is redisplayed.

Device Drivers: (DD), software modules written to handle I/O for a specific kind of terminal. The modules map terminal specific commands and data to a neutral format. Device Drivers are part of the UI Virtual Terminal.

Display List: is similar to the open list, except that it contains only those forms that have been added to the screen and are currently displayed on the screen.

Extended Binary Coded Decimal Interchange Code: (EBCDIC), the character set used by a few computer vendors (notably IBM) instead of ASCII.

Field: two-dimensional space on a terminal screen.

Form: structured view which may be imposed on windows or other forms. A form is composed of fields. These fields may be defined as forms, items, and windows.

Form Definition: (FD), forms definition language after compilation. It is read at runtime by the Form Processor.

Forms Definition Language: (FDL), the language in which electronic forms are defined.

Forms Driven Form Editor: (FDPE), subset of the FE which consists of a forms driven application used to create Form Definition files interactively.

Form Editor: (FE), subset of the IISS User Interface that is used to create definitions of forms. The FE consists of the Forms Driven Form Editor and the Forms Language Compiler.

Form Hierarchy: a graphic representation of the way in which forms, items and windows are related to their parent form.

Forms Language Compiler: (FLAN), subset of the FE that consists of a batch process that accepts a series of forms definition language statements and produces form definition files as output.

Form Processor: (FP), subset of the IISS User Interface that consists of a set of callable execution time routines available to an application program for form processing.

Form Processor Text Editor: (FPTE), subset of the Form Processor that consists of software modules that provide text editing capabilities to all users of applications that use the Form Processor.

IISS Function Screen: the first screen that is displayed after logon. It allows the user to specify the function he wants to access and the device type and device name on which he is working.

Integrated Information Support System: (IISS), a test computing environment used to investigate, demonstrate and test the concepts of information management and information integration in the context of Aerospace Manufacturing. The IISS addresses the problems of integration of data resident on heterogeneous data bases supported by heterogeneous computers interconnected via a Local Area Network.

Item: non-decomposable area of a form in which hard-coded descriptive text may be placed and the only defined areas where user data may be input/output.

Message: descriptive text which may be returned in the standard message line on the terminal screen. They are used to warn of errors or provide other user information.

Message Line: a line on the terminal screen that is used to display messages.

Network Transaction Manager: (NTM), IISS subsystem that performs the coordination, communication and housekeeping functions required to integrate the Application Processes and System Services resident on the various hosts into a cohesive system.

Open List: a list of all the forms that have been and are currently open for an application process.

Operating System: (OS), software supplied with a computer which allows it to supervise its own operations and manage access to hardware facilities such as memory and peripherals.

Page: instance of forms in windows that are created whenever a form is added to a window.

Paging and Scrolling: a method which allows a form to contain more data than can be displayed with provisions for viewing any portion of the data buffer.

Physical Device: a hardware terminal.

Qualified Name: the name of a form, item or window preceded by the hierarchy path so that it is uniquely identified.

Subform: a form that is used within another form.

User Data: data which is either input by the user or output by the application programs to items.

User Interface: (UI), IISS subsystem that controls the user's terminal and interfaces with the rest of the system. The UI consists of two major subsystems: the User Interface Development System (UIDS) and the User Interface Management System (UIMS).

User Interface Development System: (UIDS), collection of IISS User Interface subsystems that are used by applications programmers as they develop IISS applications. The UIDS includes the Form Editor and the Application Generator.

User Interface Management System: (UIMS), the runtime UI. It consists of the Form Processor, Virtual Terminal, Application Interface, the User Interface Services and the Text Editor.

User Interface Monitor: (UIM), part of the Form Processor that handles messaging between the NTM and the UI. It also provides authorization checks and initiates applications.

User Interface Services: (UIS), subset of the IISS User Interface that consists of a package of routines that aid users in controlling their environment. It includes message management, change password, and application definition services.

User Interface/Virtual Terminal Interface: (UI/VTI), another name for the User Interface.

Virtual Terminal: (VT), subset of the IISS User Interface that performs the interfacing between different terminals and the UI. This is done by defining a specific set of terminal features and protocols which must be supported by the UI software which constitutes the virtual terminal definition. Specific terminals are then mapped against the virtual terminal software by specific software modules written for each type of real terminal supported.

Window: dynamic area of a terminal screen on which predefined forms may be placed at run time.

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Window Manager: a facility which allows the following to be manipulated: size and location of windows, the device on which an application is running, the position of a form within a window. It is part of the Form Processor.

SECTION 2

DEVELOPMENT ACTIVITY

2.1 Statement of Pretest Activity

During system development, the computer programs were tested progressively. Functionality was incrementally tested and as bugs were discovered by this testing, the software was corrected.

Each form used by the FDFE was individually tested. This testing was conducted by the individual program developer in a manual mode. The developer would manually enter data onto the screen and observe the results. Any errors were noted by the developer and corrections to the program were then made after a testing session.

2.2 Pretest Activity Results

Each testing of the forms used in the FDFE application discovered a few minor bugs which were then corrected and retesting proved successful. Testing included exceptional conditions and error conditions for data entered on the forms. The overall test results during development showed no major programming errors. Only minor bugs were discovered and corrected.

SECTION 3

SYSTEM DESCRIPTION

3.1 System Description

The FDFE interfaces directly with users as an application which uses the Form Processor (FP) - via the NTH. Physical terminals are assumed to have video display, a textual keyboard, four cursor positioning keys or key sequences, a help key or key sequence, a message key, an entry key, a quit key and four other keys to be used by the FDFE for special processing (see 5.3). The FDFE must interface with the following software tools: the Forms Processor (FP), the Forms Compiler (FLAN), C language runtime routines and forms storage management. It is used to create or modify FDL files and to create new FD files; it can also be used to delete existing FDL and FD files as well as to rename existing FDL files (see Figure 3-1).

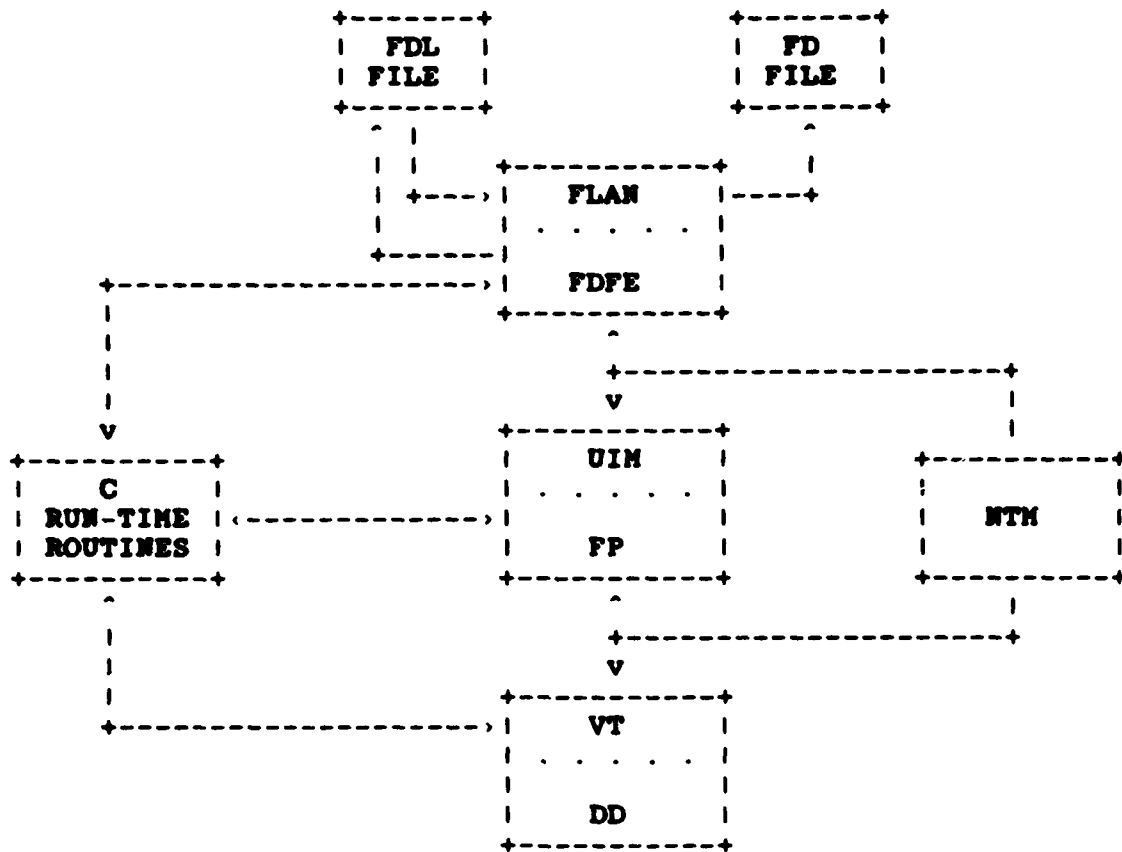


Figure 3-1 Interface Block Diagram

3.2 Testing Schedule

The execution of the FDFE is dependent upon the NTM subsystem of IISS and testing of the FDFE must be done only after the NTM has been successfully tested. Within the UI subsystem, the FDFE uses the PP, VT, AI and FLAN and must be tested only after they have been successfully tested.

3.3 First Location Testing

These tests of the FDFE require the following:

Equipment: Air Force VAX, terminal supported by the VT as listed in the the UI Terminal Operator Guide.

Support Software: The Integrated Information Support System, the Oracle database management system, and C run-time libraries.

Personnel: One integrator familiar with the UIS.

Training: FDFE manuals have been previously provided with the past release.

Deliverables: The FDFE subsystem of the UI.

Test Materials: This test is interactive and can be manually performed as outlined in this test plan. It also could be run as a script file if so desired (see below).

Security considerations: None.

3.4 Subsequent Location Testing

The requirements as listed above need to be met; however, in subsequent testing it may be advantageous to create a script file of the outlined tests and run this saving the output of the test for future comparisons.

SECTION 4

TEST SPECIFICATIONS AND EVALUATIONS

4.1 Test Specification

The following functionality of the FDFE is demonstrated by the test outlined in section 5:

- 1) List Form Language Sources (FDL files)
- 2) List Form Language Objects (FD files)
- 3) Insert a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Modify Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - D) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - E) Drop a Form from Forms Language Source
 - F) Write Forms Language Source
 - G) Write and Compile Forms Language Source
 - H) Exit and Write Forms Language Source
 - I) Exit and Write and Compile Forms Language Source
 - J) Exit No Save
- 4) Modify a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Modify Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - D) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - E) Drop a Form from Forms Language Source

- F) Write Forms Language Source
- G) Write and Compile Forms Language Source
- H) Exit and Write Forms Language Source
- I) Exit and Write and Compile Forms Language Source
- J) Exit No Save
- 5) Select a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Exit No Save
- 6) Display Compiled Form Definition
- 7) Copy Form Language Source to New Form Language Source
- 8) Rename Form Language Source to New Form Language Source
- 9) Drop Form Language Source
- 10) Drop Form Language Object
- 11) Exit

Table 4-1 shows the direct correspondence between the test (the steps outlined in Section 5) and the functional requirements as listed in this section. These functions directly correspond to the detailed functional requirements of the Forms Driven Form Editor Development Specification. The '.' indicates the figures which illustrate the testing of the top level functions: insert, modify or select a forms language source file. The '*' indicates the figures which illustrate the testing of specific functions.

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5.B.a																										
5.B.b																										
5.B.c																										
5.C																										
6																										
7																										
8																										
9																										
10																										
11																										

Table 4-1 Matrix mapping FDFE functions with test plan

Key for Table 1:

A - figures: 05-06
B - figures: 07-08
C - figures: 09-34
D - figures: 11-14
E - figures: 15-20
F - figures: 21-32
G - figures: 33-34
H - figures: 35-36
I - figures: 37-63
J - figures: 39-40
K - figures: 41-47
L - figures: 48-53
M - figures: 54-55
N - figures: 56-59
O - figures: 60-61
P - figures: 62-63
Q - figures: 64-76
R - figures: 66-70
S - figures: 71-74
T - figures: 75-76
U - figures: 77-78
V - figures: 79-80
W - figures: 81-82
X - figures: 83-84
Y - figures: 85-86
Z - figure: 87

4.2 Testing Methods and Constraints

The tests as outlined in Section 5 must be followed. The required input is stated for each test. This testing tests the normal mode of operation of these functions and does not completely exercise all the error combinations that a user of the FDFE might create by faulty entry of form field information. These tests have been done, however, through the normal testing done by the developer of these functions. IISSULIB and IISSSLIB should point to default directory. No additional constraints are placed on this unit test besides those listed in Section 3.2 and 3.3 of this unit test plan.

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4.3 Test Progression

The progression of testing of the FDFE is fully outlined in Section 5 of this unit test plan. This progression should be followed exactly to insure the successful testing of this IISS configuration item.

4.4 Test Evaluation

The test results are evaluated by comparing the information returned on the various output screens to that specified as successful for the given test. As outlined below in section 5, each test of FDFE functionality provides an input screen with the required data entry specified and the resulting output for a successful test. To speed up this testing, scripting could be used. If scripting is used, the script file FDFEUTP.SCP and its release 2.0 test saved output FDFEUTP.SAV (Under IISS Configuration Management) should be copied to your test directory. To execute the scripting option type "-RDFEUTP.SCP -SFDFEUTP.SAV" at the "Args" prompt. To compare the results with those obtained by SDRC, compare FDFETST.SAV with FDFEUTP.SAV using the command file DIFFILE.COM (Under IISS Configuration Management). The only differences found should be the date time stamps on the IISS Function Screen (figure 5-3).

SECTION 5

TEST SPECIFICATIONS AND EVALUATIONS

5.1 Test Description

A general description of this unit test was provided in Section 3.

5.2 Test Control

As outlined, this unit test is a manual test which may be done by anyone. The required input data for each function being tested, the resulting successful output and the order of the testing are completely specified below. The test control information is completely described in Section 4.4. Accurate observation of the resulting successful output must be made to ensure the unit test was done properly. As noted in Section 4.4 above scripting may be used instead of the manual test described below.

5.3 Test Procedures

To run the unit test plan in the VAX/VMS environment as outlined below, one must be logged on to an IISS account. The NTM must be up and running and the UI logical names IISSFLIB, IISSULIB, IISSSLIB and IISSMLIB must be set properly at the group level. IISSFLIB points to the directory containing system form definitions (.FD files). IISSULIB points to the directory containing the user's form definitions (.FD files). IISSSLIB points to the directory containing the user's form definition source files (.FDL files). IISSMLIB points to the directory containing error and help messages (.MSG files). To perform this test IISSULIB and IISSSLIB must be pointing to the default directory.

The test of the FDFE application consists of individually testing each function provided by the FDFE. The following keys are generally used to move within forms (using the VT100 terminal as an example): the ENTER key is used to activate all commands; the QUIT key is used to go back to previous activity without taking current action; the TAB key is used to move from field to field within the form; and the arrow keys are used to move within fields. In addition, ESC TAB is a reverse TAB. The only application defined function keys used by the FDFE are: the

function key (PF 15 on a VT100) which when in layout mode is used to transfer control to layout description mode and back again; the function key (PF 12 on a VT100) which when in layout mode is used to move fields around on a form; and two function keys which when in edit field mode or layout description mode are used to go to the previous and the next field on a form (PF 16 and PF 17 respectively on a VT100). See Figure 5-1 for VT100 keypad layout.

PF 1 MODE KEY	PF 2 HELP KEY	PF 3 MESSAGE QUEUE KEY	PF 4 QUIT KEY
PF 5	PF 6	PF 7	PF 8
PF 9	PF 10	PF 11	PF 12 Move fields on form in layout mode
PF 13	PF 14	PF 15 Go to dscpt. mode \ back to layout md	PF 0
PF 16 While in descrpt mode or edit field mode these keys used to scroll through fields on a form PF 16 = , \ PF 17 = .	PF 17	ENTER KEY	

Figure 5-1 Keypad for VT100

The inputs and outputs for each testing are illustrated by examining the following forms.

5.3.1 Access to FDFE

Following entry of the system command "RUN VT100" which activates the User Interface the following form appears:

```

USER ID: _____
PASSWORD: _____
ROLE: _____

```

Figure 5-2 IISS Logon Screen

- (1) **USER ID** is the identification name of the user, and is 1 to 10 alpha-numeric characters. **USER ID** is input as "MORENC".
- (2) **PASSWORD** must be the password associated with the **USER ID**, and is 1 to 10 alpha-numeric characters. **PASSWORD** was input as "STANLEY".
- (3) **ROLE** is any of the identifiers which are associated with the **USER ID**, and is 1 to 10 alpha-numeric characters. It will be checked against functions and applications which are selected by the user. **ROLE** is input as "MANAGER".

When this form is correctly completed and the ENTER key is pressed, the following form appears.

5.3.2 Choosing FDFE Function

The FDFE function is accessed through the following FORM:

I I S S T E S T B E D V E R S I O N 2.0			
DATE: __/__/__	TIME:__:__:__	USER ID: _____	ROLE: _____
FUNCTION: _____		DEVICE TYPE: _____	DEVICE NAME: _____
Msg: 0		application	

Figure 5-3 IISS Function Screen

When the form appears, the cursor is located on the line following FUNCTION. The items in the form are summarized below:

- (1) DATE contains the current date. This may not be changed by the user.
- (2) TIME contains the current time. This may not be changed by the user.
- (3) USER ID is the user's identification that was entered in the previous form. This may not be changed by the user.

- (4) **ROLE** is the currently active role and was entered in the previous form. This may be changed at any time.
- (5) **FUNCTION** is the function the user desires to activate. In this case it is the **FDFE** which is activated by typing "SDFDFEZZZZ" into this field.

5.3.3 Testing the FDFE

For a detailed description of how to use the FDFE consult the FDFE User Manual. The following test plan consists of screens with input for the testing of a particular display, followed by the resulting screens. When the FDFE begins the following form is displayed.

FORM DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MENU ITEMS	Command	Pic	Par/Prep Item	To/Rev Item	Help
List PBL Source	(LS)				
Insert PBL Source	(IS)				
Modify PBL Source	(MS)				
Select PBL Source	(SS)				
Copy PBL Source	(CS)				
Remove PBL Source	(RS)				
Drop PBL Source	(DS)				
List Compiled form definition (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor	(EX)				

Help: 1 Enter command on command entry line or use menu selection application

Figure 5-4 First FDFE Screen

To test listing FDL source files enter:

PCEDIT DRIVEN PEDIT EDITOR - VERSION 2.0 JUNE 1-1988

Command Entry

EDIT	FORMAT	Command	File	Format	Edit	Mode	Help
List	Format(LF)						
Write	Format(WF)						
Compile	Format(CF)						
Select a File	(SF)						
Insert a File	(IF)						
Modify a File	(MF)						
Group a File	(GF)						
Exit Write	(HW)						
Exit Compile	(HC)						
Exit No save	(HN)						

Next Task: Modify PBL Source
File Source: TEST

Msg: Enter command on command entry line or use menu selection application

Figure 5-5 Test Screen 1

The result should be similar to the following depending on files currently in the default directory.

```

FORMS DRIVER FOR EDITOR - VERSION 2.0 JUNE 1, 1986

List PBL Source Files

APPROX      APPROX
ATTEST      TESTAP
BASED       USE
CHPPLS      USERV
EDITOR
FILE
FLPRNT      FLPRNT
HEADING     HEADING
HISTORY     HISTORY
IDENTITY    IDENTITY
IN
LLEPHS      LLEPHS
OBSERV      OBSERV
PERIOD      PERIOD
PTST        PTST
RPTAS

```

Figure 5-6 Test Screen 2

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To return to work task menu screen press the QUIT key. To test listing FD object files enter:

FORM DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry _____

MENU	NAME	Description	Pic	For/From Name	To/To Name	Help
List	FILE Sources	(L0)				
Insert	FILE Sources	(I0)				
Modify	FILE Sources	(M0)				
Select	FILE Sources	(S0)				
Copy	FILE Sources	(C0)				
Remove	FILE Sources	(R0)				
Drop	FILE Sources	(D0)				
List	Compiled form definitions	(LE)				
View	Compiled form definition	(VE)				
Drop	Compiled form definition	(DE)				
Exit	form driven form editor	(E0)				

Page 0

application

Figure 5-7 Test Screen 3

The result should be similar to the following depending on files currently in the default directory.

[illegible]

Figure 5-8 Test Screen 4

To return to work task menu screen press the QUIT key. To test inserting an FDL file enter:

PERMS DRIVEN PGM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	File	Per/From Name	To/From Name	Help
List FDL Source	LS				
Insert FDL Source	IS		TEST		
Modify FDL Source	MS				
Select FDL Source	SS				
Copy FDL Source	CS				
Remove FDL Source	RS				
Drop FDL Source	DS				
List Compiled form definitions	LC				
View Compiled form definition	VC				
Drop Compiled form definition	DC				
Exit Form driven form editor	EX				

Page: 0 application

Figure 5-9 Test Screen 5

The result should be the same as the following.

PERMS DRIVEN PGM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	File	Form Name	Edit Mode	Help
List Formset	LS				
Write Formset	WS				
Compile Formset	CS				
Select a Form	SS				
Insert a Form	IS				
Modify a Form	MS				
Drop a Form	DS				
Exit Write	EX				
Exit Compile	EX				
Exit No save	EX				

Work Task: Insert FDL Source
Form Source: TEST

Page: 1 Enter command on command entry line or use menu option - application

Figure 5-10 Test Screen 6

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To test inserting a form into an FDL file enter:

The screenshot displays the PDS/VSAM command menu. At the top, the title bar reads "PDS/VSAM COMMAND MENU - VERSION 2.0 JULY 1, 1988". Below the title bar is a "Command Entry" field. The main menu consists of several options: "EDIT VSAM Command", "File", "File Name", "Exit Menu", and "Help". The "EDIT VSAM Command" option is highlighted with a vertical bar. To the right of this option is a vertical bar containing the number "1". Below the "EDIT VSAM Command" option is a vertical bar containing the text "EDIT". Below the "File" option is a vertical bar containing the text "EDIT". Below the "File Name" option is a vertical bar containing the text "EDIT". Below the "Exit Menu" option is a vertical bar containing the text "EDIT". Below the "Help" option is a vertical bar containing the text "EDIT". Below the main menu is a section labeled "Work Task: Insert PDL Source" and "File Source: TEST". At the bottom of the screen, a footer reads "Page 1 Enter command on command entry line or use arrow selection application".

Command Entry	EDIT VSAM Command	File	File Name	Exit Menu	Help
	List	File	File	File	File
	Write	File	File	File	File
	Compile	File	File	File	File
	Select a File	File	File	File	File
	Insert a File	File	File	File	File
	Modify a File	File	File	File	File
	Drop a File	File	File	File	File
	Exit Write	File	File	File	File
	Exit Compile	File	File	File	File
	Exit No save	File	File	File	File

Work Task: Insert PDL Source
File Source: TEST

Page 1 Enter command on command entry line or use arrow selection application

Figure 5-11 Test Screen 7

The following screen should appear.

Figure 5-12 Test Screen 8

If the following is entered:

Structural Dynamics Research Corporation
83000 Eastern Drive
Millers, Ohio 43108

Date: []
Pay to the Order of []
[] \$ []
[] (\$dollars)
[]
Amount _____
[]

Reg: 1 Application

Figure 5-13 Test Screen 9

The following screen should appear.

Structural Dynamics Research Corporation
33000 Eastern Drive
Billers, Ohio 44134

Date: [-----]

Pay to the Order of [-----]
[-----] \$ [-----]

[-----] (dollar)
[-----]

"none"

[-----]
[-----]

Reg. 1 Search has been entered successfully application

Figure 5-14 Test Screen 10

To return to edit task menu screen press the QUIT key. If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

Command Entry: of test 0

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert PBL Source
Form Source: TEST

Reg: 0 application

Figure 5-15 Test Screen 11

The following screen should appear.

FIELD EDIT MODE For PDL File TEST

TASK: Field

Field Type: E

Direct: Form

Get PBL: Form

FORM TEST

Size: 0 by 0

Background: BLACK

Prompt: Structural Dynamics Assoc

Row: 5 Column: 3

— Field Information —

REQUIRED:

FIELD: E Type: Column

Row: 5 By: 3

Size: 0

Display/Background: BLACK

OPTIONAL:

Display: Actual

Direction: Repetition

Spacing: (-)

Prompt: Row Col

ITEM ONLY:

Help Value:

Justify: Left Base Type: Enter/Exit MIN Value: MAX Value:

Reg: 1 Enter task and field to be acted on application

Figure 5-16 Test Screen 12

If the following is entered:

FIELD EDIT MODE For FDL File TEST

TAB: H Field: E Type: a Direct: B Set FDL: Form: _____

FORM TEST
Size: 0 by 0
Background: BLACK
Prompt: Structural Dynamics Resea
Row: 5 Column: 3

-- Field Information --

REQUIRED:
FIELD: FIELD: Type: Row: Size: Display/Background: Column: By:

OPTIONAL:
Display: Actual: Direction: Spacing: Field Repetition: (-)

Prompt: Pos: Row: Col:

ITEM ONLY:
Help: Value: Justify: Data Type: MIN value: MAX value: Enter/Fill:

Msg: 1 Enter task and field to be acted on application

Figure 5-17 Test Screen 13

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

TAB: H Field: E Type: a Direct: B Set FDL: Form: _____

FORM TEST
Size: 0 by 0
Background: BLACK
Prompt: Structural Dynamics Resea
Row: 5 Column: 3

-- Field Information --

REQUIRED:
FIELD: FLD:18_40 Type: J Row: 18 Column: 40 Size: 33 Display: INPUT Background: Column: By: 1

OPTIONAL:
Display: Actual: Direction: Spacing: Field Repetition: (-)

Prompt: Pos: TC Row: 17 Col: 41

ITEM ONLY:
Help: Value: Justify: Data Type: C MIN value: MAX value: Enter/Fill:

Msg: 1 Make Your Modifications now application

Figure 5-18 Test Screen 14

If the following is entered:

FIELD EDIT MODE For FDL File TEST

YARN #1
Field
Type A
Direct B
Get FDL

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Room
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD SIGNATURE Type 1
Row 10 Column 40
Size 33 By 1
Display/ INPUT
Background

OPTIONAL:
Display Actual
Direction Spacing
Field Repetition (-)
Prompt
Pos TC Row 17 Col 41

ITEM ONLY:
Help
Value
Justify Data Type C MIN Value
Case Enter/Fill MAX Value

Msg: 1 Make Your Modifications now application

Figure 5-19 Test Screen 15

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

YARN #1
Field
Type A
Direct B
Get FDL

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Room
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD SIGNATURE Type 1
Row 10 Column 40
Size 33 By 1
Display/ INPUT
Background

OPTIONAL:
Display Actual
Direction Spacing
Field Repetition (-)
Prompt
Pos TC Row 17 Col 41

ITEM ONLY:
Help
Value
Justify Data Type C MIN Value
Case Enter/Fill MAX Value

Msg: 1 Field was successfully added application

Figure 5-20 Test Screen 16

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 3, 1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Forms (LF)				
Write Forms (WF)				
Compile Forms (CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert FDL Source
Form Source: TEST

Reg: application

Figure 5-21 Test Screen 17

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK	Type	Form	FORM TEST
Get FDL			Size 0 by 0
			Background BLACK
			Prompt Structural Dynamics Release
			Row 5 Column 3

-- Field Characteristics Table --

Reg: Enter task and type of fields to be acted on application

Figure 5-22 Test Screen 18

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK Type Set FDL Form

FORM TEST
Size by
Background BLACK
Prompt Structural Dynamics Record
Row Column

— Field Characteristics Table —

Msg: Enter task and type of fields to be acted on application

Figure 5-23 Test Screen 19

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK Type Set FDL Form

FORM TEST
Size by
Background BLACK
Prompt Structural Dynamics Record
Row Column

— Field Characteristics Table —

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	18	40	33	1	INPUT					TC
FLB:18_04	1	15	4	21	1	INPUT				ssss	RT
FLB:12_04	1	12	4	28	1	INPUT				dollars	LT
FLB:10_67	1	10	67	11	1	INPUT				s	LT
FLB:10_04	1	10	4	28	1	INPUT				Pay to the Order of	LT
FLB:08_61	1	8	61	11	1	INPUT				Date	LT

Msg: Make Your Modifications now application

Figure 5-24 Test Screen 20

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK FORM TEST
Type Size by
Set FDL Background BLACK
Prompt Structural Dynamics Reader
Row Column

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	18	40	33	1	INPUT					TC
memo	1	15	4	21	1	INPUT				memo	
dollars	1	12	4	58	1	INPUT				dollars	RT
amount	1	10	47	11	1	INPUT				0	LT
pay_to	1	10	4	58	1	INPUT				Pay to the Order of	
chk_date	1	8	41	11	1	INPUT				Date	LT

☐ More--

Msg: ☐ Make Your Modifications now application

Figure 5-25 Test Screen 21

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK FORM TEST
Type Size by
Set FDL Background BLACK
Prompt Structural Dynamic Reader
Row Column

Field Characteristics Table

Item name	Help Message
SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAY_TO	
CHK_DATE	

☐ More--

Msg: ☐ application

Figure 5-26 Test Screen 22

If the following is entered:

FORM EDIT MODE For FDL File TEST

Item #1
Type A
Get FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamic Resour.
Row 8 Column 3

-- Field Characteristics Table --

Item Name	Help Message
SIGNATURE	
REFID	
DOLLARS	
AMOUNT	
PAY_TO	
CHE_DATE	

More--

Post: 11 application

Figure 5-27 Test Screen 23

The following screen should appear.

FORM EDIT MODE For FDL File TEST

Item #1
Type A
Get FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamic Resour.
Row 8 Column 3

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	
REFID	
DOLLARS	
AMOUNT	
PAY_TO	
CHE_DATE	

More--

Post: 11 application

Figure 5-28 Test Screen 24

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK A
Type A
Get FDL [] Form []

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAY_TO	
CHG_DATE	

[] More--

Msg: [] application

Figure 5-29 Test Screen 25

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK A
Type A
Get FDL [] Form []

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Characteristics Table --

Item Name	Just	Case	Type	E/F	Min	Max
SIGNATURE			C			
MEMO			C			
DOLLARS			C			
AMOUNT			C			
PAY_TO			r			
CHG_DATE			C			

[] More--

Msg: [] application

Figure 5-30 Test Screen 26

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If the **ENTER** key is pressed the following screen will appear.

PERM EDIT MENU

Per FBL File TEST

Test	PerM TEST
Type	Size
Get FBL	Background
	Prompt
	Run

Field Characteristics Table

Figure 5-31 Test Screen 27

If the 'MESSAGE' key is pressed the following screen should appear.

```

                                Message Status
Msg#: 6 CDE_DATE      has been successfully modified
Msg#: 5 PWD_TO        has been successfully modified
Msg#: 4 SIGNATURE     has been successfully modified
Msg#: 3 BILLBOARD     has been successfully modified
Msg#: 2 VERB          has been successfully modified
Msg#: 1 SIGNATURE     has been successfully modified
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:
Msg:

```

Msg: 0 CDE_DATE has been successfully modified application

Figure 5-32 Test Screen 28

To return to form edit mode screen press the 'QUIT' key.
To return to edit task menu screen press the 'QUIT' key. If the following is entered on the edit task menu screen:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert FBL Source
Form Source: TEST

Msg: 0 application

Figure 5-33 Test Screen 29

The following screen should appear.

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert FBL Source
Form Source: TEST

Msg: 1 Save source and compile was successful application

Figure 5-34 Test Screen 30

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To return to work task menu screen press the QUIT key. To test viewing compiled FD files enter:

FORM DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

WORK TASKS	Command	Pic	Form/From Name	To/To Name	Help
List FDL Source	(LB)		[]	[]	
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Remove FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)		.	test		
View Compiled form definition (VC)					
Enter Compiled form definition (EC)					
Exit form driven form editor (EX)					

Msg: ☐ application

Figure 5-35 Test Screen 31

The result should be the same as the following.

Structural Dynamic Research Corporation
2700 Eastman Drive
Hilliard, Ohio 43131

Date:

Pay to the order of \$

Dollars

Msg: ☐ Press (QUIT) to return application

Figure 5-36 Test Screen 32

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To return to work task menu screen press the .QUIT. key.
To test modifying an FDL file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 APR 1.1985

Command Entry

EDIT TABLE	Command	Pic	Par/Form Name	To/Form Name	Help
List FDL Sources	(LB)	[Vertical Bar]	[Large Box]	[Small Box]	[Vertical Bar]
Insert FDL Source	(IB)				
Modify FDL Source	(MB)				
Select FDL Source	(SB)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DB)	[Small Box]	[Vertical Bar]		
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
EXIT form driven form editor	(EX)				

Msg: application

Figure 5-37 Test Screen 33

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 APR 1.1985

Command Entry

EDIT TABLE	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)	[Vertical Bar]	[Large Box]	[Vertical Bar]	[Vertical Bar]
Write	Form(WF)				
Compile	Form(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: TEST

Msg: Enter command on command entry line or use menu selection application

Figure 5-38 Test Screen 34

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To test the list forms in FDL source file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

Command Entry:

EDIT TESTS Command	File Name	Edit Mode	Help
List Forms (LF)			
Write Forms (WF)			
Compile Forms (CF)			
Select a Form (SF)			
Insert a Form (IF)			
Modify a Form (MF)			
Drop a Form (DF)			
Exit Write (EW)			
Exit Compile (EC)			
Exit All Save (ES)			

Work Task: Modify FDL Source
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-39 Test Screen 35

The following screen should appear.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

List of Forms for FDL File TEST

TEST

Msg: ☐ Press (EXIT) to return application

Figure 5-40 Test Screen 36

To return to edit task menu screen press the (QUIT) key.
If the following is entered on the edit task menu screen:

FORM DRIVEN FORM EDITOR - VERSION 2.0 AGE 1.1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Note
List	Form(LF)			
Write	Form(WF)			
Compile	Form(CF)			
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Task: Modify PDL Source
Form Source: TEST

Page: application

Figure 5-41 Test Screen 37

The following screen should appear.

FORM EDIT MODE

for PDL File TEST

Task:

Get PDL

Form TEST

Size: by

Background:

Prompt:

Row: Column:

Field Characteristics Table

Page: Enter task and type of fields to be acted on application

Figure 5-42 Test Screen 38

If the following is entered:

Figure 1: Field Characteristics Table

PERM TEST NAME		Per PBL File TEST	
Task	1	PERM TEST	
Type	1	Size	77 by 10
Ext PBL	1	Background	BLACK
		Format	Structural Dynamic Reson
		Row	9 Column 3

— Field Characteristics Table —

Fig: 1 Enter task and type of fields to be acted on application

Figure 5-43 Test Screen 39

The following screen should appear.

FDL EDIT MODE

For FDL File TEST

YASH

Type A

Get FDL

Form

FORM TEST

Size 77 by 18

Background BLACK

Prompt Structural Dynamic Reproc

Row 9 Column 3

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Seq	Act	S	By Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT				TC
MEMO	1	18	4	21	1	INPUT				BC
DOLLARS	1	12	4	38	1	INPUT				BT
AMOUNT	1	10	67	11	1	INPUT				AT
PAY_TO	1	10	4	38	1	INPUT				
CHK_DATE	1	8	61	12	1	INPUT				LT

More--

Msg: Enter Your Notification Msg

application

Figure 5-44 Test Screen 40

If the following is entered:

FORM EDIT MODE		For FDL FILE TEST	
YAG: M	FORM TEST	Size 77	by 18
Type A		Background BLACK	
Get FDL	Form	Prompt Structural Dynamic Repor	
		Row 3	Column 3

--- Field Characteristics Table ---

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
MEMO	1	15	4	21	1	INPUT					BC
DOLLARS	1	12	4	58	1	INPUT					RT
AMOUNT	1	10	67	11	1	INPUT					LT
PAY_TO	1	11	4	58	1	INPUT					
CHK_DATE	1	8	61	12	1	Output					LT

Page --

Figure 5-45 Test Screen 41

The following screen should appear.

FORM EDIT MODE

FORM TEST

TAB# 1

Type A

Set PDL

Size 77

By 18

Background BLACK

Prompt Structural Dynamic Research

Row 5 Column 3

Field Characteristics Table

Figure 5-46 Test Screen 42

If the **MESSAGE** key is pressed the following screen should appear.

[illegible]

Figure 5-47 Test Screen 43

To return to form edit mode screen press the (QUIT) key.
To return to edit task menu screen press the (QUIT) key. If the
following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1.1985

Command Entry

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form (LF)				
Write Form (WF)				
Compile Form (CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)	•	test		
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Task: Modify FBL Source
Form Source: TEST

Page: 1 Enter command on command entry line or use menu selection application

Figure 5-48 Test Screen 44

The following screen should appear.

FIELD EDIT MODE For FIE File TEST

TASK: Field Type Direct Get FIE Form

FORM TEST
Size 77 by 18
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD: Row Size Display Background
Type: Enter/Full
Field: Row Size Display Background

OPTIONAL:
Display Actual Direction Spacing
Field Repetition (-)
Prompt: Row Col

ITEM ONLY:
Name Value Justify Data Type MIN Value MAX Value
Case Enter/Full

Reg: 1 Enter task and field to be acted on application

Figure 5-49 Test Screen 45

If the following is entered:

FIELD EDIT MODE For FDL File TEST

TASK: Field Type Direct Get FDL Form

FORM TEST
Size 77 by 18
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD: Row Size Display Background
Type: Enter/Full
Field: Row Size Display Background

OPTIONAL:
Display Actual Direction Spacing
Field Repetition (-)
Prompt: Row Col

ITEM ONLY:
Name Value Justify Data Type MIN Value MAX Value
Case Enter/Full

Reg: 1 Enter task and field to be acted on application

Figure 5-50 Test Screen 46

The following screen should appear.

FIELD EDIT MODE		For FDL File TEST	
TAB: R	FORM TEST	Size: 77 by 18	
Field: CHG_DATE	Background: BLACK	Prompt: Structural Dynamic Resear	
Type: []	Row: 5	Column: 3	
Direct: []			
Set FDL: []			
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD: CHG_DATE	Type: 1	Display: []	Field Repetition: (-)
Row: 2	Column: 01	Actual: []	
Size: 1-	By: 1	Direction: []	
Display: OUTPUT		Spacing: []	
Background: []		Prompt: Date	
ITEM ONLY:		Pos: LT	Row: 8 Col: 56
Help Value: []			
Justify: []	Data Type: C	MIN Value: []	
Case: []	Enter/Fill: []	MAX Value: []	
Msg: 1 Make Your Modifications now			

Figure 5-51 Test Screen 47

If the following is entered:

FIELD EDIT MODE		For FDL File TEST	
TAB: R	FORM TEST	Size: 77 by 18	
Field: CHG_DATE	Background: BLACK	Prompt: Structural Dynamic Resear	
Type: []	Row: 5	Column: 3	
Direct: []			
Set FDL: []			
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD: CHG_DATE	Type: 1	Display: []	Field Repetition: (-)
Row: 8	Column: 01	Actual: []	
Size: 10	By: 1	Direction: []	
Display: OUTPUT		Spacing: []	
Background: []		Prompt: Date	
ITEM ONLY:		Pos: LT	Row: 8 Col: 56
Help Value: "06/01/1985"			
Justify: []	Data Type: C	MIN Value: []	
Case: []	Enter/Fill: []	MAX Value: []	
Msg: 1 Make Your Modifications now			

Figure 5-52 Test Screen 48

The following screen should appear.

Figure 5-53 Test Screen 49

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

Figure 5-54 Test Screen 50

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The following screen should appear.

Structural Dynamic Research Corporation
22000 Eastman Drive
Millersburg, Ohio 43130

(Date)(-----)

"Pay to the order of"
[-----] (to)(-----)

[-----](Dollars)

[-----]

"Amount"

[-----]

[-----]

Msg: 0 application

Figure 5-55 Test Screen 51

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORCE DRIVEN FORM EDITOR - VERSION 3.0 JUNE 1, 1985

Command Entry [11 10012 1]

EDIT TASKS	Command	File	Form Name	Edit Mode	Help
List	Form(LP)				
Write	Form(WP)				
Compile	Form(CP)				
Select a Form	(SP)				
Insert a Form	(IP)				
Modify a Form	(MP)				
Drop a Form	(DP)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit Be save	(BS)				

Work Task: Modify PDL Source
Form Source: TEST

Msg: 0 application

Figure 5-56 Test Screen 52

The following screen should appear.

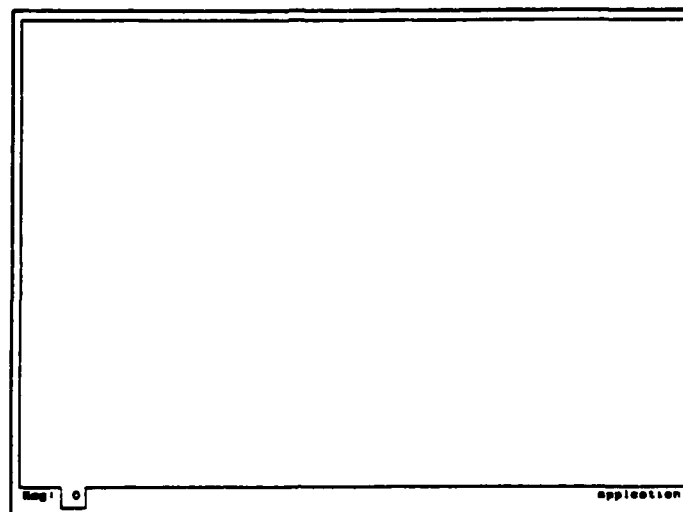


Figure 5-57 Test Screen 53

If the following is entered:

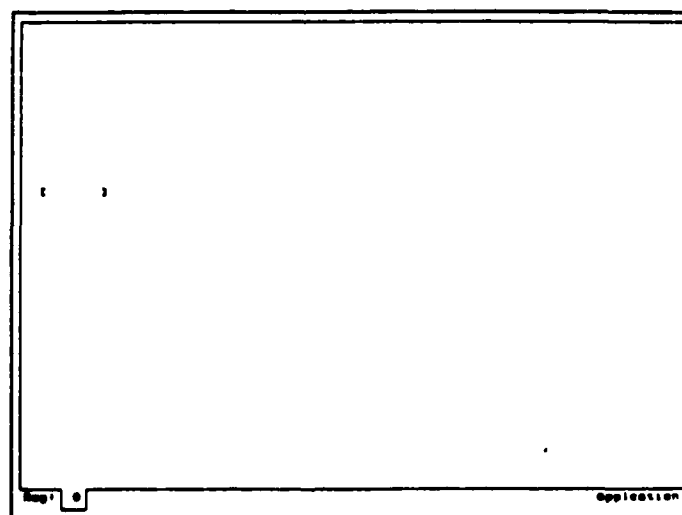


Figure 5-58 Test Screen 54

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The following screen should appear.

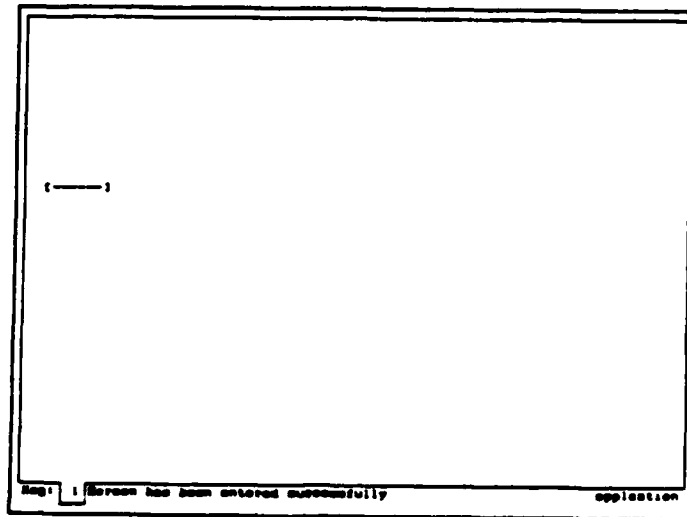


Figure 5-59 Test Screen 55

To return to edit task menu screen press the 'QUIT' key.
To test the ability to drop a form from an FDL file enter:

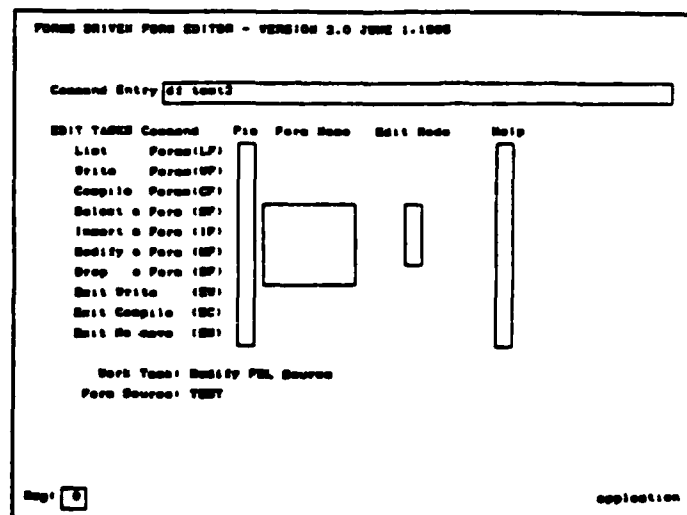


Figure 5-60 Test Screen 56

The following screen should appear.

FORMS DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TABLE Command	File	Form Name	Edit Mode	Help
List Form(LF)	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Table: Modify PBL Source
Form Source: TEST

Msg: ☐ Drop form was successful

application

Figure 5-61 Test Screen 57

To test compiling and saving source file which was modified enter:

FORMS DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TABLE Command	File	Form Name	Edit Mode	Help
List Form(LF)	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Table: Modify PBL Source
Form Source: TEST

Msg: ☐ Drop form was successful





application

Figure 5-62 Test Screen 58

The following screen should appear.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)				
Write	Form(WF)				
Compile	Form(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Delete a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: TEST

Msg: ☐ Save source and compile was successful





application

Figure 5-63 Test Screen 59

To return to work task menu screen press the <QUIT> key.
To test selecting and FDL source file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/Form Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Delete FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Delete Compiled form definition (DC)					
Exit form driven form editor	(EX)				

Msg: ☐ G

application

Figure 5-64 Test Screen 60

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Form (LF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Select a Form	(SF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Exit No save	(EN)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Work Task: Select PDL Source for - READING ONLY
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-65 Test Screen 61

If the following is entered:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Form (LF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Select a Form	(SF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Exit No save	(EN)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Work Task: Select PDL Source for - READING ONLY
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-66 Test Screen 62

The following screen should appear.

FORM EDIT MODE

For FDL File TEST

TASK 5

Type Form

Set FDL

FORM TEST

Size by

Background

Prompt

Row Column

-- Field Characteristics Table --

Msg: Enter type of fields to be viewed

application

Figure 5-67 Test Screen 63

If the following is entered:

FORM EDIT MODE

For FDL File TEST

TASK 5

Type Form

Set FDL

FORM TEST

Size by

Background

Prompt

Row Column

-- Field Characteristics Table --

Msg: Enter type of fields to be viewed

application

Figure 5-68 Test Screen 64

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TAB: 8 FORM TEST
Type: A Size: 77 by 18
Get FDL: Form: Background: BLACK
Prompt: Structural Dynamic Reader
Row: 5 Column: 3

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	So	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
MEMO	1	18	4	21	1	INPUT					SC
DOLLARS	1	12	4	25	1	INPUT					RT
AMOUNT	1	10	47	11	1	INPUT					LT
PAY_TO	1	10	4	38	1	INPUT					LT
CHE_DATE	1	8	41	10	1	OUTPUT					LT

Page: 0 application

Figure 5-69 Test Screen 65

If the <ENTER> key is pressed the following screen will appear.

FORM EDIT MODE For FDL File TEST

TAB: 8 FORM TEST
Type: A Size: 77 by 18
Get FDL: Form: Background: BLACK
Prompt: Structural Dynamic Reader
Row: 5 Column: 3

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	So	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
MEMO	1	18	4	21	1	INPUT					SC
DOLLARS	1	12	4	25	1	INPUT					RT
AMOUNT	1	10	47	11	1	INPUT					LT
PAY_TO	1	10	4	38	1	INPUT					LT
CHE_DATE	1	8	41	10	1	OUTPUT					LT

Page: 0 application

Figure 5-70 Test Screen 66

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To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS Command: Pic Form Name Edit Modes Help

List Form (LF)

Select a Form (SF)

Exit No save (EN)

Work Task: Select FDL Source for - READING ONLY

Form Source: TEST

Reg: .application

Figure 5-71 Test Screen 67

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

TASK 8

Field

Type

Direct

Get FDL

FORM TEST

Size 77 by 18

Background BLACK

Prompt Structural Dynamic Reader

Row 3 Column 3

-- Field Information --

REQUIRED:

FIELD

Row

Size

Display/Background

Type

Column

By

OPTIONAL:

Display

Actual

Direction

Spacing

Field Repetition (-)

Prompt

Pos

Row

Col

ITEM ONLY:

Value

Justify

Case

Data Type

Enter/Exit

RIN Value

MAX Value

Reg: Enter field to be viewed .application

Figure 5-72 Test Screen 68

If the following is entered:

FIELD EDIT MODE		For FIA File TEST	
TAG: 8		FORM TEST	
Field	Size	77 by 18	
Type	Background	BLACK	
Direct	Prompt	Structural Dynamic Resear	
Get FIA	Row	5 Column	3
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	(-)
Display/		Spacing	
Background		Prompt	
ITEM ONLY:		Pos	
Help			
Value			
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
Reg: 1 Enter field to be viewed application			

Figure 5-73 Test Screen 69

The following screen should appear.

FIELD EDIT MODE		For FIA File TEST	
TAG: 8		FORM TEST	
Field	Size	77 by 18	
Type	Background	BLACK	
Direct	Prompt	Structural Dynamic Resear	
Get FIA	Row	5 Column	3
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	(-)
Display/		Spacing	
Background		Prompt	
ITEM ONLY:		Pos	
Help			
Value			
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
Reg: 10 application			

Figure 5-74 Test Screen 70

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To return to edit task menu screen press the 'QUIT' key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry: _____

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)				
Select a Form (SF)			TEST	1	
Exit No save (EN)					

Work Task: Select FDL Source for - READING ONLY
Form Source: TEST

Reg: 0 application

Figure 5-75 Test Screen 71

The following screen should appear.

Structural Dynamic Research Corporation
82000 Eastman Drive
Billard, Ohio 44134

IDate(-----)

"Pay to the order of" _____

(-----) 10(-----)

(-----)(Dollars)

(-----)

"Name" _____

(-----)

Reg: 0 application




Figure 5-76 Test Screen 72

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To return to edit task menu screen press the <QUIT> key.
To return to work task menu screen press the <QUIT> key. To
view the changes to the compiled FD file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.00 JUNE 1, 1985

Command Entry:

WORK TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Delete FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Delete Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Page: application

Figure 5-77 Test Screen 73

The result should be the same as the following.

Structural Dynamic Research Corporation
2000 Eastern Drive
Hilliard, Ohio 43151

Date 06/01/1985

Pay to the order of

\$

Dollars

Page: Press (QUIT) to return application





Figure 5-78 Test Screen 74

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To return to work task menu screen press the <QUIT> key.
To test copying one FDL file to another enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				





Msg: ☐ application

Figure 5-79 Test Screen 75

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Msg: ☒ Copy was successful application

Figure 5-80 Test Screen 76

To test dropping an FDL file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LB)				
Insert FDL Source	(IB)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Copy was successful

application

Figure 5-81 Test Screen 77

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LB)				
Insert FDL Source	(IB)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Drop source was successful

application

Figure 5-82 Test Screen 78

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To test renaming an FDL file to another file enter:

FORMS DRIVER FORM EDITOR - VERSION 1.00 DATE 1-1-1985

Command Entry

MAIN TASKS		Command	Pic	For/From Name	To/New Name	Help
List	FDL Sources	(LS)	[Large rectangular box]	[Small rectangular box]		[Vertical bar]
Insert	FDL Source	(IS)				
Modify	FDL Source	(MS)				
Select	FDL Source	(SS)				
Copy	FDL Source	(CS)				
Rename	FDL Source	(RS)				
Drop	FDL Source	(DS)				
List	Compiled form definitions (LC)		[Small rectangular box]			
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
Exit	form driven form editor	(ES)				

Msg: ☐ Drop source was successful

application

Figure 5-83 Test Screen 79

The result should be the same as the following.

FORMS DRIVER FORM EDITOR - VERSION 1.00 DATE 1-1-1985

Command Entry

MAIN TASKS		Command	Pic	For/From Name	To/New Name	Help
List	FDL Sources	(LS)	[Large rectangular box]	[Small rectangular box]		[Vertical bar]
Insert	FDL Source	(IS)				
Modify	FDL Source	(MS)				
Select	FDL Source	(SS)				
Copy	FDL Source	(CS)				
Rename	FDL Source	(RS)				
Drop	FDL Source	(DS)				
List	Compiled form definitions (LC)		[Small rectangular box]			
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
Exit	form driven form editor	(ES)				

Msg: ☐ Rename was successful

application

Figure 5-84 Test Screen 80

To test dropping an FD file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

NAME TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LR)				
Insert FDL Source	(IR)				
Modify FDL Source	(MR)				
Select FDL Source	(SR)				
Copy FDL Source	(CR)				
Rename FDL Source	(RR)				
Drop FDL Source	(DR)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Rename was successful

application

Figure 5-85 Test Screen 81

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

NAME TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LR)				
Insert FDL Source	(IR)				
Modify FDL Source	(MR)				
Select FDL Source	(SR)				
Copy FDL Source	(CR)				
Rename FDL Source	(RR)				
Drop FDL Source	(DR)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Drop Compiled form was successful

application

Figure 5-86 Test Screen 82

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To exit the FDFE either press the 'QUIT' key or enter:

FORM DRIVEN FORM EDITOR - VERSION 2.0 APR 1, 1985

Command Entry: _____

FFFF TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SN)				
Copy FDL Source	(CS)				
Remove FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definition (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Msg: ☒ Drop Compiled form was successful

application

Figure 5-87 Test Screen 83

After exiting the FDFE, the IISS Function Screen (Figure 5-3) form appears, press the 'QUIT' key once more to terminate the Unit Test of the FDFE.

